# "APPROVED FOR RELEASE: 08/23/2000

## CIA-RDP86-00513R001548910011-1

s/054/62/000/002/001/012 B163/B138 Calculation of the energy of the ground state of a system of three nucleons Leningrad. Universitet.

Leningrad. 5-16

no. 2. 1962. Shcherbin, Yu. P. TEXT: A theoretical investigation was made of the wave functions describ-AUTHOR: the ground state of a system of three nucleons there exist two state and Blatt's classification there exist two saccording to Derrick's and Blatt's ing the ground state of a system of three nucleons there exist two S- and there ground state of a Blatt's classification respect to a permutation according to Derrick's and Blatt's symmetrical with respect to a permutation according to Derrick's which are symmetrical with respect to a permutation according to Derrick's which are symmetrical with respect to a permutation according to Derrick's which are symmetrical with respect to a permutation according to Derrick's and Derrick's and Derrick's which are symmetrical with respect to a permutation according to Derrick's and Derrick's an According to Derrick's and Blatt's classification there exist two S- and permutation and Blatt's classification there exist two S- and permutation to the binding and Blatt's classification with respect to a permutation binding which are symmetrical with respect to the binding which are symmetrical with respect to the binding which are symmetrical with respect to the binding which are symmetrical with respect to a permutation to the binding which are symmetrical with respect to a permutation to the binding which are symmetrical with respect to a permutation to the binding which are symmetrical with respect to a permutation to the binding which are symmetrical with respect to a permutation to the binding which are symmetrical with respect to a permutation to the binding which are symmetrical with respect to the binding which are symmetrical with the bi TITLE: D state wave functions which are symmetrical with respect to a permutation to the binding They give the main contribution to the binding of particle distances. PERIODICAL: of particle distances.

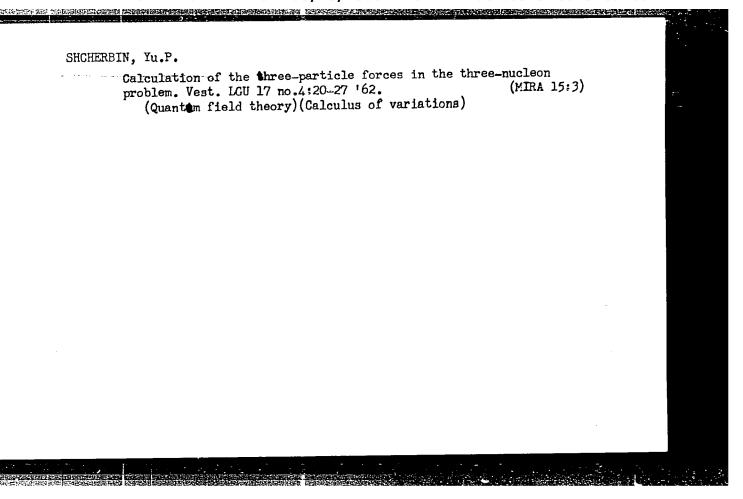
They give the main contribution to the binding operator interaction potential operator. If the matricular of H and Ee tensor, and a spin-orbital component. energy of H and . He and a spin-orbital component.

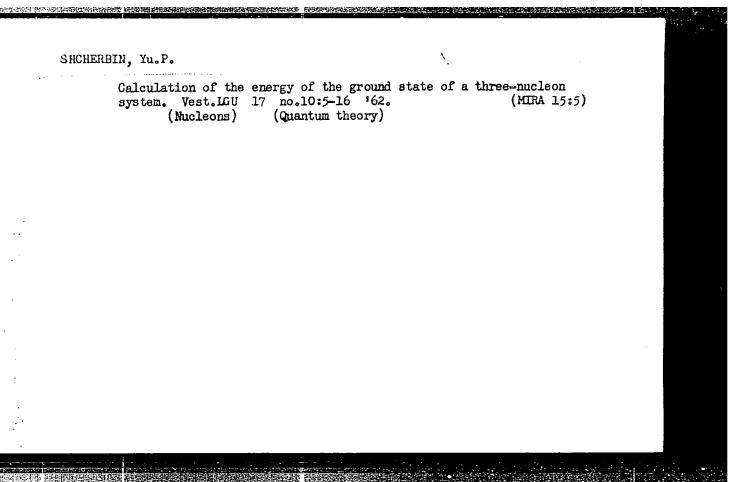
The two-nucleon interaction potential operator if the matrix and a spin-orbital component.

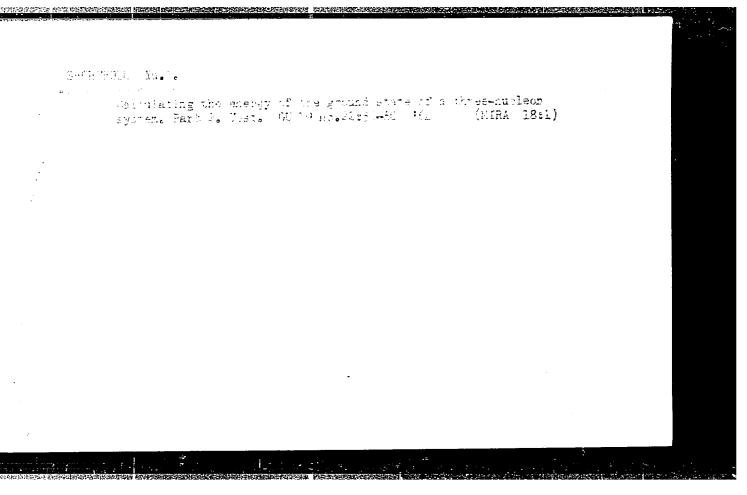
and a spin-orbital energy are calculated and potential energy are interaction, which depend on the spin-isospin elements of the operators of function, which depend on the spin-isospin elements of the wave function, which depend on the spin-isospin elements of the wave function, which depend on the spin-isospin elements of the wave function, which depend on the spin-isospin elements of the wave function, which depend on the spin-isospin elements of the wave function, which depend on the spin-isospin elements of the wave function, which depend on the spin-isospin elements of the wave function. elements of the operators of kinetic and potential energy are calculated with those parts of the wave function, partial differential equations asystem of 10 partial differential equations. ٤ S SJ Card 1/2 Card :

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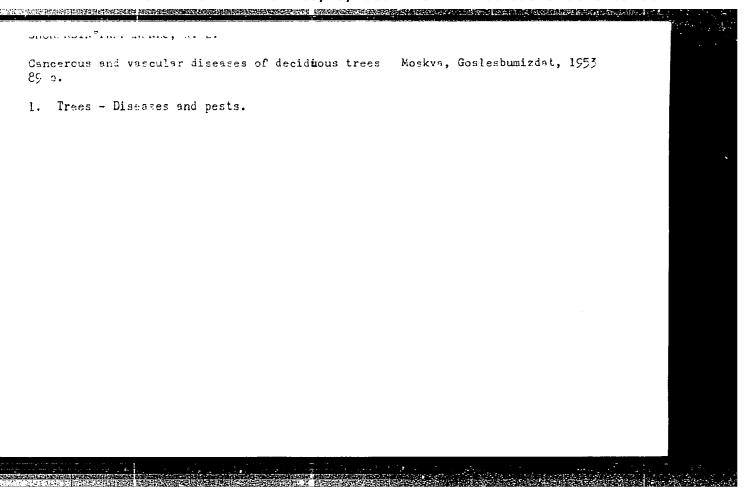




SHCHERBIN, Yu.P.

Study of the ground state of the three-nucleon system by a one-dimensional equation method. Vest. LGU 20 no.4:1/2-145 165.

(MIRA 18:4)



Choreridn-Parfeceric, A. I. -- 'Endothelia' Cancer and Call Disease of the Eddile Caestout." Min Misser Education USEs. Lecinaria (rder of lenin Precipy Engineering Arademy Lenin I. ". Liroy. Leningrad, 1856 (Pissertation for the Degree of Candidate in Miclogical Science)

So: Fnizhrava Letoris', Mc 12, 1956

USSR/General and Special Zoology. Insects Mes Jour : Ref Zhur - Biol., No 6, 1958, No 25826 : Sheherbin-Forfenenke A.L. Author : Not Given Inst : The Argeneut Hernteil (Sirex organeutomum Gussek). (Rogokhvest-Title organization (Sirox organizationum Gussak)). Orig Fub : Neuchn.-tckhn. sb. tr. po lesn. kh-vu Sever. Kevkeze, vyp. 2, 1956**,** 154--156 Abstract: The argonaut horntail was of great economic value in the Bol'sho-Lobin summer home of the Psobry forest kolkhoz. It inhabited healthy firs, the passages for emergence being only there where as a result of trimming or slips the sapwood was exposed. The femiles only deposited their eggs on here sepwood.

Gord : 1/1

SECHERBIN-PARPENENKO, Anton Lavrent'yevich; ZHURAVLEV, I.I., red.;
ULYAKHINA, I.P., red.1zd-va; POPOVA, V.V., tekhn. red.

[Bacterial diseases of forest trees] Bakterial'nye zabolevaniia lesnykh porod. Moskva, Goslesbumizdat, 1963. 146 p.

(MIRA 17:2)

	Strengthening the links with farms. Sov.shakht. 10 no.5:4 My '61. (MIRA 14:9)	
	1. Predsedatel' komiteta profsoyuza shakhty no.l im. Chelyuskintsev, Donbass. (Donets BasinCoal miners) (Farmers)	
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BELYAVSKIY, A.; SHCHERBINA, A. (Kasli, Chelyabinskoy obl.)

Device for locating short-circuited turns in coils. Radio no.8:
19 ag '60.

(Electric coils)

#### SHCHERBINA, A.A.

Parks in the western provinces of the Ukrainian S.S.R. Biul.Glav. bot. sada no.18:32-41 '54. (MIRA 8:3)

SHCHERSINA, A.A.

Results of the acclimatization of ornamental trees and shrubs in the city of Lvov and its vicinity. Nauk.zap.L'viv.un.26:
105-112 '54.

(Lvov--Plants, Ornamental)

SHORING TO

NAZAREVSKIY, S.I., MAKAROV. S.N., PILIPENEO, F.S., ERASIMOV, M.V.; IL'INSKAYA,
M.L.; VEKSLER, A.I., [decease] VASIL YEV, I.M.; IL'INA. N.V.; SOKOLOV,
S.Ya.; LOZINA-LOZINSKAYA, A.S.; SAAKOV, S.G., ZALESSKIY, D.M.; AVRORIN,
N.A.; IVANOV, M.I.; PRIKLADOV, N.V.; SOBOLEVSKAYA, K.A.; SALAMATOV,
M.N.; MALINOVSKIY, P.I.; LUCHNIK, A.I.; KRAVCHENKO, O.A.; VEKHOV, N.K.;
GROZDOV, B.V.; MASHKIN, S.; BOSSE, G.G.; PALIN, P.S., (g. Shuya, Ivanovskoy oblasti); MATUKHIN; ZATVARNITSKIY, G.F.; GRACHEV, N.G.; CHERKASOV,
M.I.; KIRKOPULO, Ye.N.; LEVITSKAYA, A.M.; GRISHKO, N.N.; LIKHVAR', D.F.,
VIL'CHINSKIY, N.M.; LYPA, A.L.; OREKHOV, M.V.; SHCHERBINA, A.A.; CCCCCC,
TSYGANKOVA, V.Z.; BAPANOVSKIY, A.L.; GEORGIYEVSKIY, S.D.; STEPUNIN, G.A.,
OZOLIN, E.P.; LUKAYTENE, M.K.; KOS, YU.I.; VAIL'YEV, A.V.; RUKHADZE,
P.Ye.; VASHADZE, V.N.; SHANIDZE, V.M.; MANDZHAVIDZE, D.V.; KORKESHKO,
A.L.; KOLESNIKOV, A.I., (g. Sochi); SERGEYEV, L.I.; VOLOSHIN, M.P.;
RYBIN, V.A.; IVANOVA, B.I.; RYABOVA, T.I.; GAREYEV, E.Z.; RUSANOV, F.N.;
BOCHANTSEVA, Z.P.; BLINOVSKIY, K.V.; KLYSHEV, L.K.; MUSHEGYAN, A.M.;
LEONOV, L.M.

Talks given by participants in the meeting. Biul.Glav.bot.sada no.15: 85-182 '53. (MLRA 9:1)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR (for Makarov Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyay-stva imeni K.D. Pamfilova for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanichezyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanichezkogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, skogo instituta imeni V.L.Komarova imeni imeni v.L.Komarova imeni imeni

NAZAREVSKIY, S.L. --- (continued) Card 2.

gosudarstvennogo ordena Lenina universiteta (for Zalesskiy): 6. Pol yarno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sak pri Tomskom gosudarstvennom universiteta (for Ivanov); 8. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta imeni V.V. Kuybysheva (for Prikladov); 9. TSentral nyy Sibirskiy botanicheskiy sad Zapadno-Sibirskogo filiala Akademii nauk SSSR (for Salamatov, Sobolevskaya); 10, Botanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A. Zhdanova (for Malinovskiy); 11. Altayskaya plodovo-yagodnaya opyt-naya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for Kravchenko); 13. Lesostepnaya selektsionnaya opytnaya stantsiya dekorativnykh kulitur tresta Goszelenkhoz Ministerstva kommunalinogo khozyaystva RSFSR (for Vekhov); 14. Bryanskiy lesokhozyaystvennyy institut (for Grozdov): 15. Botanicheskiy sad pri Voronezhskom gosudarstvennom universitete (for Mashkin); 16. Orekhovo-Zuyevskiy pedago-gicheskiy institut (for Bosse); 17. Botanicheskiy sad pri Rostovskom gosudarstvennom universitete imeni V.M. Molotova (for Matukhin); 18. Botanicheskiy sad Kuybyshevskogo gorodckogo otdela narodnogo obrazovaniya (fcr Zatvarnitskiy); 19. Zoobctanicheskiy sad pri Kazanskom universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy proektnyy institut "Giprokommunstroy" (for Cherkasov): 21, Botanicheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I. Mechnikova (for Kirkopulo); 22. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad (continued on next card)

NAZAREVSKIY, S.L. -- (continued) Card 3.

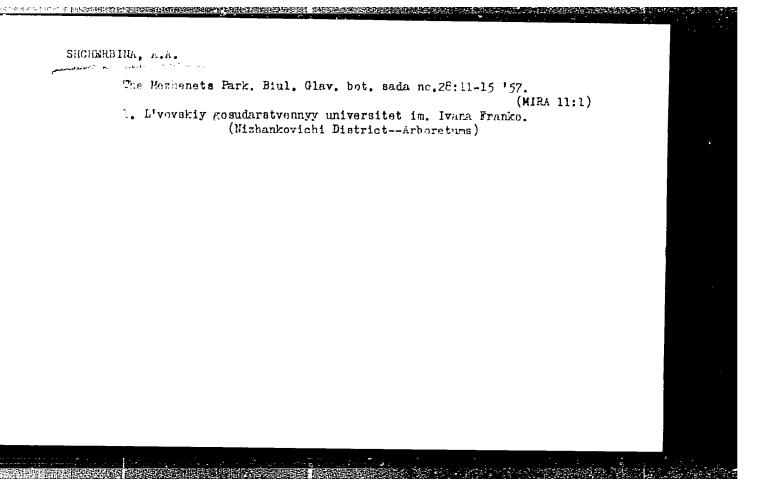
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Akademii nauk USSR (for Grishko, Likhvar', Vil'chinskiy); 24. Kiyevskiy seliskokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri L'vovskom gosudarstvennom universitete imen: Iv. Franko (for Shcherbina): 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSygankova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepunin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayeved-cheskiy botanicheskiy sad (for Kos); 34. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasil'yev, Rukhadze); 35. Batumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze); 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze); 37. Sochinskiy park Dendrariy (for Korkeshko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeyev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR (for Gareyev); 43. Botanicheskiy (continued on next card)

NAZAREVSKIY, S.L...-(continued) Card 4.

sad Akademii nauk Usbekskoy SSR (for Rusanov, Bochantseva); 44.
Botanicheskiy sad Akademii nauk Turkmenskoy SSR (for Blinovskiy);
45. Respublikanskiy sad Akademii nauk Kazakhskoy SSR (for Kiyshev,
Mushegyan).

(Botanical gardena)



SHCHERDINA, A.A.

Introduction of trees and shrubs in Lvov. Biul.Glav.bot.
sada no.32:31-36 '58. (MIRA 12:5)

1. L'vovskiy gosudarstvennyy universitet im. Iv. Franko.
(Lvov--Arboretums)

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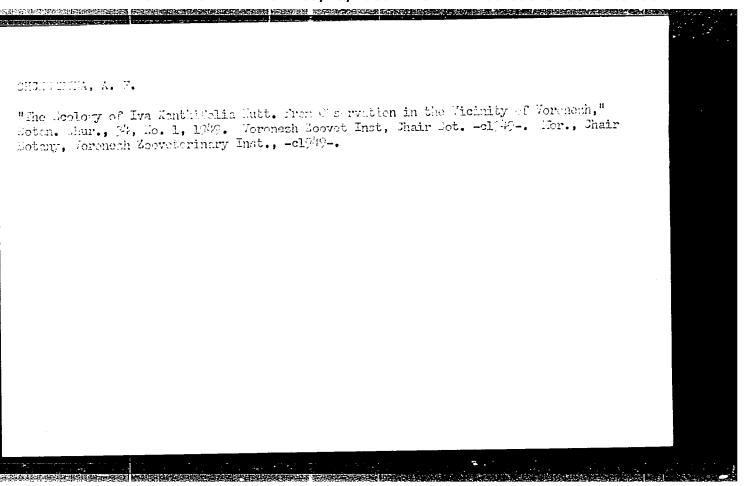
Secretaria. A. D.

Ob edica metode summirovaniya ryadov. sopryazhenny kh s ryadami Fur'ye. Enepropetrovsk.

2ap. un-ta, 25 (1941), 45-61.

So: Mathematics in the USCR, 1917-1947
 edited by Kurosh, A.G.,
 Markushevich, A.I.,
 Rashevskiy. F.K.
 Moscow-Leningrad, 1948

SHCHERBINA, A		Personal Parties and Personal				
	jugate to Fourier 157-170 (1950). (1950). Let $S_n(x) = S_n(x, j)$ conjugate to the Fourier	be the $n$ th partial sum of the der series of $f(v)$ , and let	7(69), series			
	be the delayed (C, 1) sufficient condition t gent, for every contin	x) = $(S_{n-p} + \cdots + S_{n-1} + S_n)/(p+1)$ means of $ S_n $ , (1) A necessary that $\delta(n, p)$ be uniformly equica- uous $f$ , with	y und			
	as n-> ∞, is that lim tion is satisfied, then everywhere, for ever	inf <sub>n-in</sub> $p/n > 0$ . (2) If the latter $o(n, p) \rightarrow f(x)$ (= $\lim_{n \to \infty} f_n(x)$ ) a y integrable $f$ , (3) A correspondence conjugate to the Fonda. Zygmund (Chicago, 1)	Imost nding urier-		-	,
Source: Mathem	stical Reviews,	vol 12 No.	5			• !
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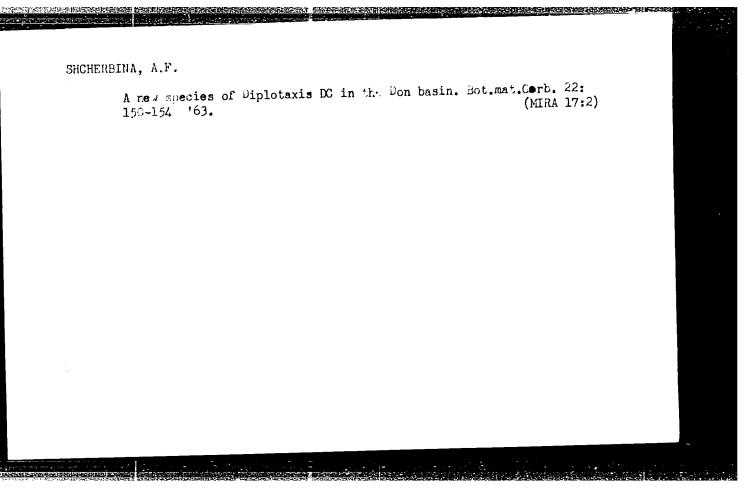
MUCHNIK, S.R., starshiy nauchnyy sotrudnik; SKORODINSKAYA, V.V., starshiy nauchnyy sotrudnik; SHCHERBINA, A.F., mladshiy nauchnyy sotrudnik

Metabolism in patients with marked myopia and deratoconus. Oft. (MIRA 11:10)

1. Iz laboratorii patologicheskoy fiziologii Ukrainskogo nauchnoissledovatel'skogo eksperimental'nogo instituta glaznych bolezney i tkanevoy terapii im. akademika V.P. Filatova (direktor - prof. N.A. Puchkoyskeya).

(METABOLISM)

(EYE-DISEASES DEFECTS)



8(0) SOV/112-59-5-9186

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 110 (USSR)

AUTHOR: Sheherbina, A. G.

TITLE: Regenerative Circuit of a Semiconductor Refrigerator

PERIODICAL: Tr. 1-y Mezhvuzovsk. konferentsii po sovrem. tekhn. dielektrikov

i poluprovodnikov, 1956, g. L., 1957, pp 314-318

ABSTRACT: An experimental 100-liter refrigerator was built by remodeling a "Dnepr" icebox. The first stage comprises a bank of 200 thermocouples, the second stage three similar banks. Tests were conducted with and without a fan blowing on the hot radiators. The test results proved to be unsatisfactory: with a 90-kg weight, vs. 50 kg of the "ZIS-Moskva" refrigerator, over 50% of the electric power was spent for overcoming a parasitic temperature drop that reached 20-30°C. The design of a regenerative semiconductor refrigerator free from the above disadvantages and having a considerably higher refrigeration coefficient is presented. The regenerative circuit exhibited, in actual tests, twice as high an economy as that of the conventional semiconductor refrigerator.

L.I.A.

Card 1/1

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KOLENKO, Ye.A.; SHCHERBINA, A.G.; YUR'YEV, V.G.

Method of eliminating heat from semiconductor cooling devices.
Zhur. tekh. fiz. 28 no.11:2543-2545 N '58. (MIRA 12:1)

(Semiconductors) (Cooling)

KOLENKO, Ya.A.; SHCHERBINA, A.C.

Microtome table with thermoelectric cooling. Med.prom. 13
no.3:47-48 Mr '59. (MIRA 12:5)

1. Institut poluprovodnikov AN SSSR.
(MICROTOME)

ISAAKYAN, L.A.; KOLENKO, Ye.A.; SHCHERBINA, A.G.

Riectrical apparatus for thermal stimulation of the skin. Fiziol. zhur. 45 no.11:1388-1391 N '59. (MIRA 13:5)

1. From the U.S.S.R. Academy of Sciences Institute of Semi-Conductors and the department of general physiology, Institute of Experimental Medicine, Leningrad.

(TEMPERATURE)

S/120/61/000/004/032/034 E194/E355

AUTHORS: Voronin, A.N., Sher, E.M. and Shcherbina, A.G.

TITLE: A precision semiconductor zero thermostat

PERIODICAL: Pribory i tekhnika eksperimenta, no. 4, 1961, pp. 181 - 182

TEXT: Maintaining the cold junctions of thermocouples in a vacuum flask with melting ice is an inconvenient and rather inaccurate arrangement. A cold-junction thermostat has been constructed, based on semiconductor cooling thermoelements which accurately maintains a temperature of 0  $^{\circ}\text{C}_{\circ}$ The cold junction of the thermocouple is in a sealed copper vessel, completely filled with water and also containing a pressure bellows inside which are electrical contacts that operate when the bellows are compressed. The base of the copper vessel is cooled by being in contact with the cold junctions of a battery of 8 semiconductor thermo-elements connected in series and passing a current of 16 A. The hot junction is cooled by tap water and the water unions also serve as electrical terminals. As the water in the copper Card 1/2

A precision

S/120/61/000/004/032/034 E194/E355

vessel is cooled it freezes round the walls, expanding so that the pressure-sensitive bellows is compressed to operate a relay that disconnects supply from the thermal battery. As the ice melts the pressure is relieved and supply to the thermobattery is restored. Thus, the cold junction is always in water that is in equilibrium with ice. Foam plastic is used for thermal insulation of the equipment. The thermostat maintains a temperature of 0 °C to within ± 0.001 °C. The thermostat is 100 mm in diameter 120 mm high and weighs 1.1 kg. It is supplied by a rectifier unit using two germanium diodes type BF-10 (VG-10) and can operate with cooling-water temperature up to 30 °C and room temperatures up to 40 °C. By increasing the size, water cooling could be There are 2 figures.

ASSOCIATION

Institut poluprovodnikov AN SSSR (Institute of Semiconductors of the AS USSR)

SUBMITTED

December 15, 1960

Card 2/2

## "APPROVED FOR RELEASE: 08/23/2000

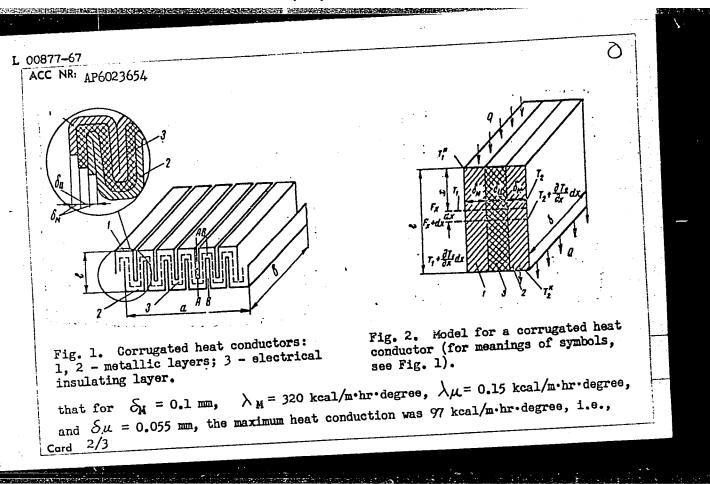
#### CIA-RDP86-00513R001548910011-1

IJP(c) AT/RM/WW L 00877-67 SOURCE CODE: UR/0066/66/000/004/0017/0020 ACC NR: AP6023654 AUTHOR: Shcherbina, A. G. ORG: SKB Institute for Semiconductors, Academy of Science SSSR (SKB Instituta poluprovodnikov Akademii nauk SSSR) TITLE: Corrugated heat conductors for thermoelectric batteries SOURCE: Kholodil'naya tekhnika, no. 4, 1966, 17-20 TOPIC TAGS: thermoelectric converter, thermoelectric cooling, thermoelectric equipment, thermoelectric generator ABSTRACT: A method for calculating heat conduction through corrugated heat conductors is presented. The calculation is based on the following model (see Figs. 1 and 2). Applying the heat/conduction equation to the heat flow through the metal and electrical insulating layers arranged as shown in Fig. 2, the author derives an expression for the maximum heat conductivity of the heat conductor  $\lambda_{(max)} = \frac{\lambda_M \delta_M}{1.3 (2\delta_M + \delta_M)}.$ 

where  $\lambda_{\mu}$  and  $\delta_{\mu}$  is the heat conductivity and thickness of the metallic layer respectively, and  $\delta_{\mu}$  is the thickness of the insulating layer. The derived expression was tested on a corrugated copper-epoxy-impregnated paper. It was found

1/3 Card

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equal to that of aluminum. the temperature difference	The derived exp	ression was also te	sted by calcu	lating	
difference (0.99C) was fou	ind to be in good	agreement with the	experimentall	y de-	
termined values of 0.851 is capable of producing 80	25C. An install: 0—1000 corrugates	ation based on a sem d heat conductor un-	ring machine Its per hour-	mechanism Orig.	
art. has: 2 graphs and 26	equations.	- 11-40 - 00144-102 - 414	por	· ·	
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SHCHERBINA, A. I., Cand. Agri. Sci. (diss) "Effect of Various of Poultry
Light Systems on Maintenance / for Exchanges of Substances
(N, Ca and P) and Development of their Offspring, "Khar'kov, 1961,
16 pp. (Khar'kov Zoo-vet. Inst.) 150 copies (KL Supp 12-61, 283).

SHCHERBINA, A.I., inzh.

Steel plate for the lining of blast furnace bells. Met. i gornorud. prom. no.1:69-70 Ja-F '62. (MIRA 16:6)

(Blast furnaces—Design and construction)

(Plates, Iron and steel)

SILAKOV, N.K., slesar' (Odessa); SHCHERBINA, A.I., slesar' (Odessa)

Test stand for electric welding generators. Suggested by N.K.
Silakov, A.I.Shcherbina. Stroi. truboprov. 8 no.5:35 My '63.
(MIFA 16:5)

1. Stroitel'no-montazhnoye upravleniye No.10 tresta Ukrgazneftestroy.
(Electric generators)

SHCHERBINA, A.I., inzh. ; PROSTOV, N.A., inzh.

Working 338m of a running tunnel in one month in the construction of the Moscow subway. Shakht. strci. 7 no.11824-26 Nº63 (MIRA 1787)

1. Stroitel'no-montazhnoye upravleniye No.7 Gosudarstvennogo ordena Lenina i ordena Trudovogo Krasnogo Zhameni upravleniye stroitel'stva Moskovskogo metropolitena.

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Sum any SC, 18 Dec (S), Discertailens Presented For Degrees in Science and Engineering in Morrow in 1913. From Vocilernyaya Markov, Jan-Dec. 1819.	

SHOHERFILM, A. K. Diseases of dem [pond] fish. Mescew. Agricultural fublishing House, 1952. 2075 pages with Illustrations. Frice 4 rubles, 70 kepeks, bound. 10,600 contest.

Sc: Veterinariya; 30; (3); Merch 1953; Uncl.

TABCON

. •	FILLBINA, A.M., Crof.	
â.	MLSE Co.C.	
4.	Fish Juleure	
7.	Applying the principles of grassland acriculture to pond fish culture, hyb.khoz. 29 no. 3, 1955.	
9.	Monthly List of Russian Accessions, Library of Congress, APAIL 1953, Uncl.	
		or state of the

SHCHERBINA, A.K., doktor veterinarnykh nauk, professor.

General regularities in the development and dying out of contagious diseases of fish. Veterinariia 30 no.11:22-25 N '53.

(MLRA 6:11)

SHCHERBINA, A.K., Professor (Kiev Vet Inst)

"The Basic Principles on Prophylaxis and Eradication of Infectious Diseases in  $Calves^{\rm B}$ 

Report given at 13th Inter-VUZ (Higher Educational Insts.) Scientific-Industrial Conference, held February 1956 at Kiev Vet Inst.

Control of fish diseases in the Union ... Veterinarita 34 no. 9:57-59 S 157.

(Ukraine--Fishes--Disease and desta)

MARKEVICH, A.P.; SHCHERBINA, A.K.

State and problems of the study of fish diseases in inland waters of the Ukrainian S.S.R. Trudy sov. Ikht.kom. no.9:149-152 '59. (MIRA 13:5)

1. Institut zoologii AN USSR i Nauchno-issledovatel'skiy institut prudovogo i ozerno-rechnogo rybnogo khozyaystva USSR.

(Ukraine--Fishes--Diseases and pests)

UHCHEGINA, A. E.

了UNITED TO THE TEST TO THE TE

"The Basic Problem of Veterinary Science in the Development of Radical Measures to Fight Fish Diseases in the Ukrainian Lakes."

Tenth Conference on Parasitological Froblems and Diseases with Natural Reservoirs, 22-29 Uctober 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Institute of Fish Breeding and Department of Epizootology of the Veterinary Faculty of the Ukrainian Academy of Agricultural Science. Kiev.

SHCHERBIRA, A.K., prof., doktor veterin.nauk; ZABORSKIY, N.I., red.;
PECHENKIN, I.V., takhn.red.

[Diseases of pond fishes] Bolezni prudovykh ryb. Moskva,
Izd-vo M-va sel'.khoz.SSSR, 1960. 39 p.

(MIRA 1/1:1)

(Fishes--Diseases and pests)

SHCHERBINA, Aleksey Konstantinovich, prof., doktor veterin.nauk;

MEL'NIKOV, G.B., prof., doktor biolog.nauk, red.; DONETS,
N.Ye., red.; ZHELIKHOVSKIY, V.I., red.; KVITKA, S.P.,
tekhn.red.

[Diseases of fishes and their control] Bolezni ryb i mery
bor'by s nimi. Kiev, Izd-vo Ukr.Akad.sel'khoz.nauk, 1960.
333 p. (MIRA 14:1)

(Fishes--Diseases and pests)

SUKHOVERKHOV, F.M., kend.biolog.nauk; DENISOV, L.I., inzh.; MATSUTSIN, N.G., inzh.; PISARKNKOVA, A.S., rybovod; SHCHERBINA, A.K., doktor veterinarnykh nauk; GRIGOR'YEV, Ye.P., red.; DEYEVA, V.M., tekhn.red.

[Fish culturist's handbook] Spravochnik rybovoda. Moskva, Gos. izd-vo sel'khoz.lit-ry, 1960. 350 p. (MIRA 13:9) (Fish culture)

"Antibiotics against experimental pasteurellosis in poultry."

Veterinariya, Vol. 37, No. 2, 1960, p. 40

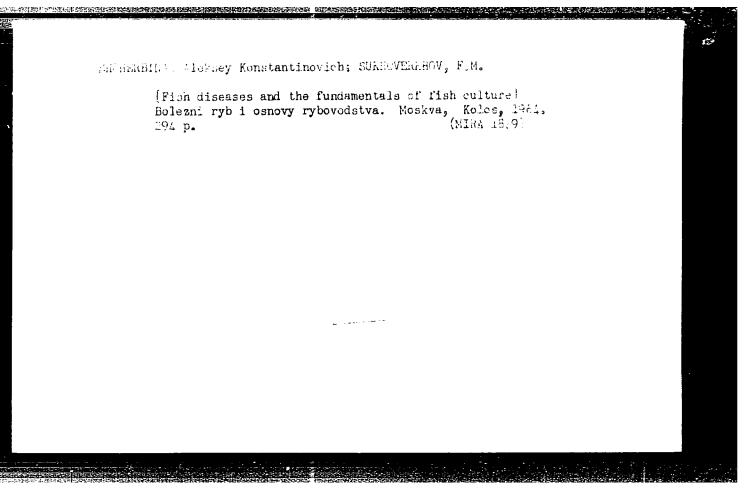
(SHCHERBINA, A. K., Prof., NASTENKO, K. A., and IMITRIYEV, Dotsents, STEPENKO, M. F., Ordinator - Ukruinian Acad. Agricultural Sci.

SHCHERBINA, A. K., GORBAN', N. I., NASTENKO, K. A., and DMITRIYEV, H. I. (Doctor of Veterinary Sciences and Candidates of Veterinary Sciences)

"The testing of biomycin in pasteurellosis of ducklings"

Veterinariya, Vol. 38, no. 10, October 1961, pp. 81-89

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9. Monthly List of Russian Accessions, Library of Congress,	

SHCHERBINA. A.R.

USSR/Agriculture

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1/1

Authors

Shcherbina, A. R.

Title

Along the steppes of the Ukraine

Periodical

Nauka i Zhizn'. 5, 36 - 38, May 1954

Abstract

Working and social activities of kolkhoz (cooperative) farmers of the Ukraine steppes and their contributions to the fulfillment of Soviet

5-year plans. Illustrations.

Institution :

Submitted

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SHCHERÀIRÀ, À. R.

High yields of cora on large areas 2., dop. izd. Moskva, Gor. izd-vo selkhoz lit-ry 1955. 85 p. (Peredovoi opyt v sel'skoz khozlaistve)

1. Maize - Russia.
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MARCHENKO, A.I., kand.med.nauk (Klyev); KARPENKO, N.G. (Klyev);
SHCHERBINA, A.S. (Klyev)

Frequency of paradentosis among the rural population of Fastov and Brovary Districts of Klyev Province. Probl.stom. 4:201-204 (MIRA 13:6)

(KIEV PROVINCE-GUMS-DISEASES)

PROKOPENKO, A.G., inzh.; GORESHNIK, A.D., inzh; PALIYCHIK, A.S., inzh.; HUVIMSKIY, I.M., inzh.; SHALAGIN, A.D., inzh.; SHCHERBINA, A.V., inzh.; YAKOVLEV, V.N., inzh.

Starting up turbine-boiler units after a holiday shutdown of 24 hours. Teploenergetika 7 no.3:60-72 Mr '60. (MIRA 13:5)

1. Yuzhnoye otdeleniye Gosudarstvonnogo tresta po organizatsii i ratsionalizatsii elektrostantsiy, Yuzhno-Ural'skaye gosudarstvennaya rayonnaya elektricheskaya stantsiya, Odesskaya teploelektrotsentral'i Stupinskaya teploelektrotsentral'.

(Boilers) (Steam turbines)

PROKOPENKO, A.G., inzh.; PALIYCHUK, A.S., inzh.; SHCHERBINA, A.V., inzh.; SHALAGIN, A.D., inzh.

Starting features of VP turbines. Elek. sta. 32 no.7:11-17 J1 (MIRA 14:10)

(Steam turbines)

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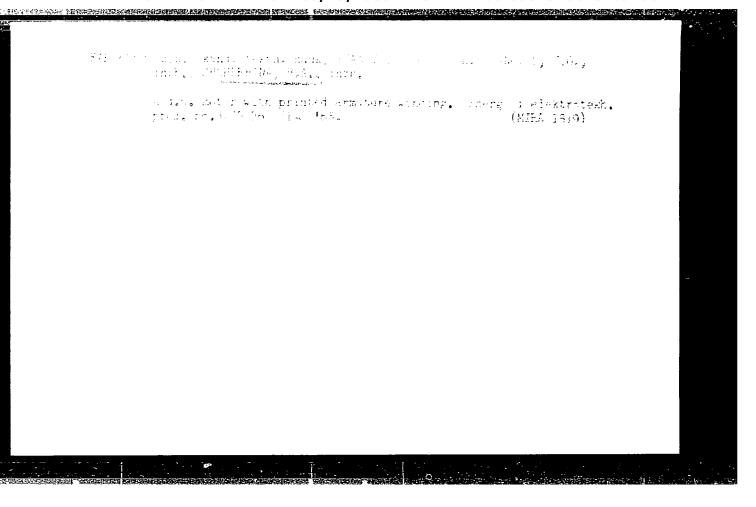
PROKOPENKO, A.G., inzh.; SHV-TS, V.N., inzh.; SHCHERBINA, A.V., inzh.

Morning start-up of a boiler-turbine unit. Elek. sta.32 no.5:2-4
My '61. (Boilers) (Steam turbines)

(Boilers) (Steam turbines)

GOMOLAGENES, V.I., Inco.: The 1988 A. ... Inco.: SECURIFERA, A.V., Inch.

Diark of a 1827-1916 Check for a 1826-6 Co. Section with 1816 and general control of the control



VORONOV, V.G., inzh.; SHCHERDINA, B.G., inzh.

CHICAPAN PERSONANTAN PERSONANTAN PENSONANTAN PENSONANT

Automatic cable placing device for three-phase cable winding machines. Energ. i elektrotekh. prom. no.2:56-57 Ap.Je 164. (MIRA 17:10)

SHCHERBINA, D. (g. Novomoskovsk, Dnepropetrovskoy oblasti)

Worker inventors, Prom.koop. no.4:10 Ap '57. (MIRA 10:7)

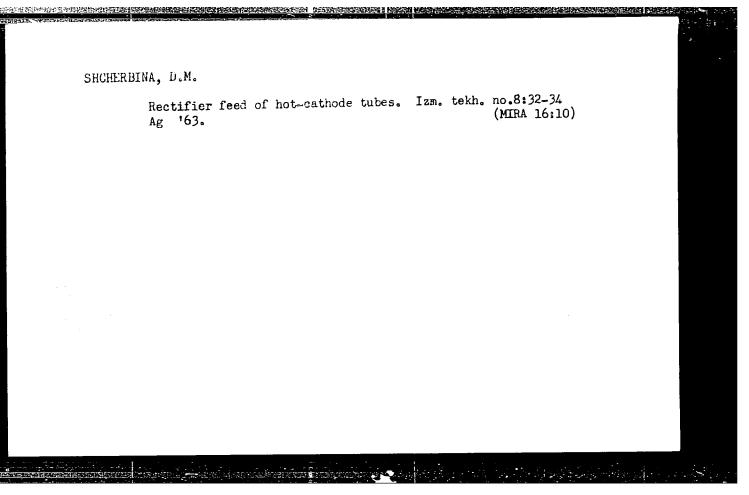
1. Tekhnoruk arteli invalidov "Yedineniye."

(Efficiency, Industrial)

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Change the dates for taking samples of winter crops and perennial grasses. Zemledelie 8 no.1:92 Ja '60. (MIRA 13:4)

1. Glavnyy agronom plemsvinosovkhoza "Chutovo", Poltavskoy oblesti.

(Grain) (Grasses) (Plants--Frost resistance)
```



ACCESSION NR: AP4014638

\$/0115/64/000/001/0027/0029

AUTHOR: Shcherbina, D. M.

TITLE: Kerr cell used for comparing luminous fluxes

SOURCE: Izmeritel'naya tekhnika, no. 1, 1964, 27-29

TOPIC TAGS: pyrometer, optical pyrometer, comparator, Kerr cell, Kerr cell comparator, luminous flux, luminous flux comparator

ABSTRACT: The use of a Kerr cell for optical-pyrometer measurements is considered. Two luminous fluxes polarized in perpendicular planes are directed into a Kerr cell. If the fluxes are unequal, the difference will be modulated by the cell, passed through an analyzer, and measured by a phototube. This formula describes the above phenomenon:

$$\Delta\Phi = \frac{1-\cos\phi}{4} \Delta\Phi \cos(4\alpha-2\gamma),$$

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ACCESSION NR: AP4014638

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where  $\Delta\Phi_{\sim}$  is the alternating luminous flux reaching the phototube;  $\mathcal G$  is the phase difference between the ordinary and extraordinary rays that passed the Kerr cell;  $\Delta\Phi$  is the difference between the two fluxes being compared;  $\ll$  is the angle between the principal plane of the Kerr cell and a polarizer;  $\vartheta$  is the angle between the principal planes of the analyzer and the same polarizer. Two pairs of plates at right angles with applied quadrature-shifted voltages are suggested for the rotating-field Kerr cell. Sources of various errors are examined. Orig. art. has: 3 figures and 2 formulas.

ASSOCIATION: none

SUBMITTED: 00

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Card 2/2

ACCESSION NR: AP4024195

5/0294/64/000/001/0098/0101

AUTHOR: Shcherbina, D. M.

TITLE: Temperature measurements in solar furnaces

SOURCE: Teplofizika vy\*sokikh temperatur, no. 1, 1964, 98-101

TOPIC TAGS: solar furnace, temperature measurement, solar furnace temperature, blackness coefficient, brightness temperature, reflection coefficient, magnesium oxide brightness

ABSTRACT: A new method has been developed at the KhGIMIP to determine the temperature of a solar furnace, so as to eliminate the methodological difficulties caused by the reflected sunlight. The method is based on determining the blackness coefficient of the measured sample and the brightness temperature, due to the reflected solar energy, of a comparison object made of magnesium oxide. The brightness temperature of the investigated sample is also measured

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ACCESSION NR: AP4024195

and consists of the brightness due to its thermal radiation and a brightness of the reflected sunlight, so that one can write

$$e^{\frac{c_0}{\lambda T_1}} = e^{\frac{c_0}{\lambda T}} + \frac{\rho}{\rho_0} \cdot e^{\frac{c_1}{\lambda T_0}}.$$
 (3)

where  $T_1$  is the brightness temperature of the sample,  $T_0$  the brightness temperature of the magnesium oxide, T the unknown temperature,  $\zeta$  and  $\zeta_0$  are the respective reflection coefficients of the specimen and the magnesium oxide, and  $\lambda$  is the blackness coefficient. The procedure for determining all the quantities except T is described. The measurement error does not exceed 1%. Orig. art. has: 5 formulas and 2 tables.

ASSOCIATION: Khar'kovskiy gosudarstvenny\*y institut mer i izmeritel'ny\*kh priborov (Khar'kov State Institute for Measures and Mea-

Card ... 2/3.

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ACCESSION NR: AP5006479

8/0294/65/003/001/0164/0165

23

AUTHOR: Shcherbina, D. M.

. . .

TITLE: Concerning one possibility of measuring emissivity and

SCURCE: Teplofizika vysokikh temperatur, v. 3, no. 1, 1965, 164-165

TOPIC TAGS: emissivity, reflection coefficient, brightness temperature, blackness coefficient, optical measurement

ABSTRACT: The method proposed is applicable in the case when the emissivity of the body has a wavelength dependence with minima or maxima. An external source such as a gas-discharge lamp eliminates the heated surface of a circle, the temperature of which is maintained constant (monitored, for example, with a brightness pyrometer). The reflection coefficient in some direction is recorded as a function of the wavelength, and the reflected light can be separated from the intrinsic radiation by modulating the incident light. A procedure for determining the blackness coefficient and the brightness temperature is presented for the case when the curve has a maximum, by making use of the fact that the blackness coefficients

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ACCESSION NR: AP5006479

corresponding to points of equal reflection are the same. An alternate variant of the method is proposed. The method can be used to measure the blackness coefficients of materials with low thermal conductivity, since simpler methods are available for those with high thermal conductivity. The success of the method depends on how clearly pronounced the extremum of the reflection-coefficient curve is at constant temperature and on the optical range in which this extremum is situated. Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: None

SUBMITTED: 25Jun64

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Card 2/2

#### CIA-RDP86-00513R001548910011-1 "APPROVED FOR RELEASE: 08/23/2000

L 41704-66

SOURCE CODE: UR/0115/66/000/004/0044/0047

AP6019577 ACC NR:

AUTHOR: Shcherbina, D. M.

TITLE: Apparatus for the determination of spectral blackness coefficients

SOURCE: Izmeritel'naya tekhnika, no. 4, 1966, 44-47

TOPIC TAGS: temperature measurement, radiation measurement, black body radiation,

light reflection coefficient, solar furnace

ABSTRACT: The author describes apparatus developed for the measurement of the normal spectral reflection coefficients of nonmetallic materials at high temperatures, from which the temperatures themselves can be determined. The apparatus consists of a solar furnace to heat the measured sample (to 2500C), and a measuring optical system consisting of a reflector, irradiator, and electronic circuit. Solar-radiation pyrometers are also included. The test body is heated by focused solar radiation, and its surface temperature is determined by reflecting from it a narrow beam of light from a hydrogen-filled pulsed flash lamp. The reflected light signal is detected, amplified, and recorded. The article describes the measurement method, the apparatus, and the equatorial system used to allow the apparatus to follow the sun's motion relative to the earth. Various precautions necessary to avoid the effects of vibration, background, and other disturbing factors are also described. According to preliminary tests, the apparatus can measure blackness coefficients at temperatures

1/2 Card

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DEL'TSOV, B.M., inzh.; SHCHERBINA, E.G., inzh.

Trends in the creation of means for the mechanization of stoping operations in steeply dipping seams. Ugol' Ukr. 6 no.5:32-33 (MIRA 15:11)

- 1. Gorlovskiy mashinostroitelinyy zavod im. S.M.Kirova (for Delitsov).
- 2. Toretskiy mashinostroitel'nyy zavod (for Shcherbina).
  (Donets Basin--Coal mining machinery)

PANASENKO, S.I., inzh.; SHCHERRINA, E.G., inzh.; AKSENOV, V.V., kand tekhn. nauk; D'YAKONOV, D.N., inzh.; MIRONOV, N.T., inzh.

Testing experimental sections of the support of the AKD unit.

Ugol'. prom. no.6:54-57 N-D '62. (MIRA 1612)

Toretskiy mashinostroitel'nyy zavod (for Panasenko, Shcherbina).
 Institut gornogo dela im. Skochinskogo (for Aksenov, D'yakonov, Mironov).

(Mine timbering—Testing)

SHCHERBINA, F. [Shcherbyna, F.]

Let us build farm buildings for the collective farms under our patronage. Sil'. bud. 13 no.11:8-9 N '63. (MIRA 17:1)

1. Sekretar' partiynoy organizatsii Kiyevskogo domostroitel'nogo kombinata No.1.

1575-66 ENT(m)/EPF(c)/EPF(n)-2/EMI(i)/T/EMA(h)/EMA(1)/ RPL WW/GG/ ACCESSION NR: AP5022600 UR/0190/65/007/009/1549/15  AUTHORS: Shcherbina, F. F.; Fedorova, I. P. WY  TITLE: Radiation copolymerization of allylamine with acrylic and methacrylic	/RM_ 553
TITLE: Radiation copolymerization of all	
acids /// *Y.55  SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 9, 1965, 1549-1553	
TOPIC TAGS: copolymerization, acrylic acid, methacrylic acid, allylamine, radiation polymerization  ABSTRACT: Radiation copolymerization of allylamine with acrylic and methacry acids in aqueous solution and in solid phase has been accomplished by using co60 at 1300 and 56 rad/sec. The reaction proceeded at room temperature to extent of 72%. A detailed study of the reaction was performed since the polyproducts of this reaction have amphoteric character and so are of considerably products and practical interest. The bifunctional character of the product was confirmed by the dependence of the viscosity of the aqueous polymer solution the pH of the medium (see Fig. 1 on the Enclosure), by the potentiometry titration curves, and by chemical analysis. These latter data were confirmed the results of calculations based on the curve in Fig. 1, which indicates the	ymeric le cts tion ic d by

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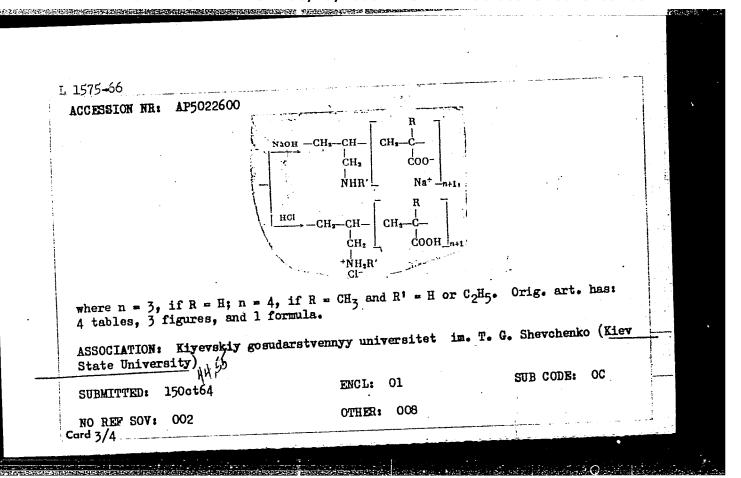
ACCESSION NR: AP5022600

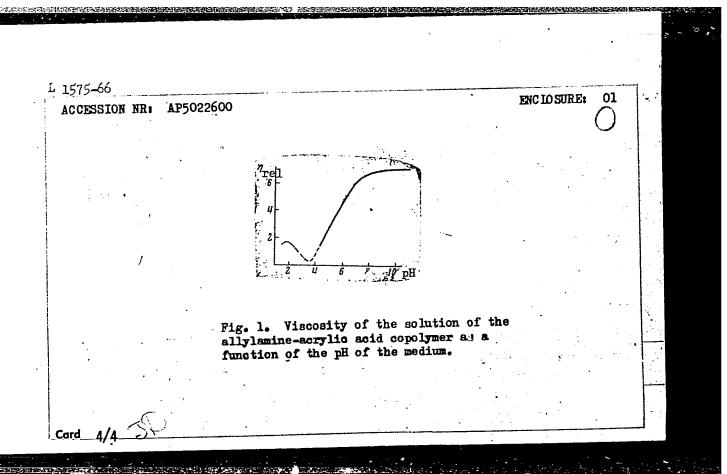
the ratio of the basic to the acidic component is 1:4 in the case of acrylic acid, and 1:4.7 in the case of methacrylic acid. It also appears that the content of the polymer is independent of the radiation doses and the composition of the monomeric mixture. An excess of allylamine, however, lowers the yield of the copolymer. The dotted portion of the curve indicates the region of pH within which the copolymers precipitate. Similar results were obtained when N-ethyl alanine was used as a basic component. However, a solution of N,N-diethylalanine copolymer, used by 0. 0. Houben-Weul (Methoden der organischen Chemie, Georg Thieme Verlag, Stuttgart, 4 Aufl., 1961, S.1133) in his viscosimetric studies, was stable at all pH values. This is explained by the formation in the vicinity of the isoelectric point by the primary and secondary amino groups (but not by the tertiary) of an isoluble lactam which is readily cleaved by either an acid or a base

CH<sub>2</sub> R

CH<sub>2</sub> CH CR CH<sub>2</sub> CC COOH R

Card 2/4\_





FAL'KOVICH, Yu.Ye.; Prinimali uchastiye: STANCHU, I., student;

SHCHERBINA, C., studentka

Determining copper content of wine and brandy by means of ion

exchange resins. Trudy KIFP no.22:375-378 '61. (MIRA 16:4)

(Wine and winemaking—Analysis)

(Ion exchange resiss)

#### SHCHERBINA, G.V.

Otogenous intracranial complications as revealed by materials from the Otolaryngological Department of the Volhyn' Province Hospital. Zhur. ush., nos. i gorl. bol. 21 no.2:28-31 Mr-Ap '61.

(MIRA 1/:6)

1. Otolaringologicheskaya otdeleniya Volynskoy oblastnoy bol'nitsy. (EAR.—DISEASES) (BRAIN.—DISEASES)

SHCHERBINA, G.V.

Content of 17-ketosteroids in the urine of scleroma patients Zhur. ush. nos. i gorl. bol. 23 no.6:51-55 N-D 163.

l. Iz kafedry bolezney ukła, gorla i nosa (ispolnyayushchiy obyazannosti zaveduyushchego - doktor med. nauk R.A. Barilyak) I'vovskogo meditsinskogo instituta.

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                                                S/020/61/140/002/008/023
                                                C111/C444
 AUTHOR:
              Shcherbina, G. V.
 TITLE:
               On the boundary value problem for Blasius' equation
 PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 2, 1961,
 TEXT: The author proves the existence of the solution of the boundary
                y^{4} + 2yy^{1} = 0
                                                           (1)
y(^{+}_{-0}) = 0, y'(+0)=y'(-0), y''(+0)=cy''(-0), \lim_{x \to 0} y''(x) = 0
                                                         у'(x)=a
lim y'(x) = b (c > 0, a > 0, b > 0, a \neq b).
The proof is based on the following theorems:
Lemma 1: For an arbitrary solution of (1) there is either
y''(x) \neq 0 (-\infty < x \leftarrow \infty) \text{ or } y''(x) \equiv 0.
Theorem 1: If y'(x) > 0(-\infty < x < \infty), then there exist finite limits
        y'(x), lim y'(x).
lim
x \rightarrow + \infty
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On the boundary value problem . . . C111/C444

Theorem 2: Let y(x) be the solutation of (1) and  $\lim_{x \to +\infty} y'(x) = a > 0$ ,  $\lim_{x \to +\infty} y'(x) = b > 0$ ,  $y(0) = c_0$ ,  $y'(0) = c_1$ ,  $y''(0) = c_0$ .

Then there exists for every e > 0 a e > 0 such that out of  $|y_0 - c_0| < e < 0$ ,  $|y_0' - c_1| < e < 0$ ,  $|y_0'' - c_2| < e < 0$  it follows:  $\max_{x \to +\infty} |y'(x) - y'(x, y_0, y_0', y_0')| < e < 0$ Theorem 3: Let  $y'(0) = \infty$ , y''(0) = e < 0. For every e > 0 and every e > 0 there exists a e < 0 such that e < 0 satisfies the equation (1) and e < 0 there exists a e < 0 then e < 0 such that e < 0 is a continous monotonely decreasing function of e < 0; if e < 0 and e < 0 such that e < 0 is the strict upper bound of those e < 0, for which e < 0 such e < 0 is e < 0. Card e < 0.

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S/020/61/140/002/008/023 C111/C444 On the boundary value problem . . .

The author thanks Professor A. D. Myshkis.

ALTERNATION OF A PERSONAL PROPERTY AND A PROPERTY OF THE AREA OF T

There are three non-Soviet-bloc references.

ASSOCIATION: Fiziko-Tekhnicheskiy institut nizkikh temperatur

Akademii nauk SSSR (Physicotechnical Institute of Lower

Temperatures of the Academiy of Sciences USSR)

PRESENTED:

November 28, 1960, by J. G. Petrovskiy, Academician

SUBMITTED: November 24, 1960

Card 3/3

CIA-RDP86-00513R001548910011-1" APPROVED FOR RELEASE: 08/23/2000

Shcherbina, G.V.

S/044/63/000/002/016/050 A060/A126

TITLE: On a boundary problem for quasilinear ordinary differential equations

PERIODICAL: Referativnyy zhurnal, Matematika, no. 2, 1963, 41, abstract 2B175
(Uch. zap. Khar'kovsk. un-t, 1961, 120, Zap. Mekhan.-matem. fak. i
Khar'kovsk. matem. o-va, v. 28, 97 - 102)

TEXT: The author considers the boundary problem  $y'' + \varphi(x, y) y' + \psi(y) = 0, \qquad (1)$  $y(0) = 0, \quad \lim_{x \to \infty} y(x) = 1 \quad (0 \le x \le \infty). \qquad (1')$ 

With respect to the functions  $\varphi(x, y)$  and  $\psi(y)$  it is assumed that: 1)  $\varphi(x, y)$  and  $\psi(y)$  are non-negative nonincreasing functions of u, and at every point of the interval 0 < y < 1 at least one of them is strictly monotonic and  $\psi(1) = 0$ ; 2)  $\varphi(x, y)$ ,  $\varphi_x(x, y)$  and  $\psi(y)$  are continuous for x > 0, y > 0,  $\varphi_y(x, y)$  and  $\psi'(y)$  are continuous for x > 0, 0 < y < 1; 3)

Card 1/2

AUTHOR:

On a boundary problem for quasilinear .... \$/044/63/000/002/016/050 A060/A126

$$\int_{0}^{\infty} \psi(y) \, dy < \infty, \quad \int_{0}^{\infty} \varphi(x, ax) \, dx \text{ is finite for any } a > 0; \quad 4) \text{ for those}$$

$$y < 1 \text{ for which } \psi(y) = 0 \text{ the following holds } \lim_{x \to \infty} \frac{\varphi(x, y)}{x^{\alpha}} = c(y) > 0,$$

where  $\alpha > -1$  is some constant. Under these conditions there exists a unique solution of the boundary problem (1), (1').

Yu.A. Klokov

[Abstracter's note: Complete translation]

Card 2/2

SHCHERBINA, G.V.

Laminar flow of a viscous fluid in a channel with porous walls.

Pribl.metod.resh.diff,urav. no.2:162-175 \*\*164.

(MIRA 18:4)

Pg-4 IJP(c) L 63570-65 EWT(d) UR/0041/65/017/003/0074/0083 ACCESSION NR: AP5014863 AUTHORS: Myshkis, A. D. (Khar'kov); Shoherbina, G. V. (Khar'kov) TITLE: Asymptotic behavior of solutions vanishing at infinity of a class of second order differential equations SOURCE: Ukrainskiy matematicheskiy zhurnal, v. 17, no. 3, 1965, 74-83 TOPIC TAGS: asymptotic property, differential equation ABSTRACT: As a generalization of a specific problem previously treated, the authors investigate the asymptotic behavior as  $z \to \infty$  of solutions y(x) of  $(y'' + \varphi(x, y)y' - \varphi(x, y)y = 0)$ having the property  $0 < y(x) \le h \qquad (x_0 < x < \infty), \qquad y(x) \to 0$ Here  $\varphi$  and  $\gamma$  are continuous in some strip  $\pi$ :  $x_0 \le x < \infty$ ,  $0 \le y \le h$ , where  $x_0$  and h are positive. The authors justify linearization using new techniques (standard methods being inapplicable) with an arbitrary choice of exponents in their decompositions. They prove the following Theorem: Let Card 1/3

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	$\varphi(x,0) = \sum_{i=0}^{n} a_{i} x^{\rho_{i}} + \sigma(x^{\rho_{n}}), \qquad \psi(x,0) = \sum_{i=0}^{n} b_{i} x^{\rho_{n} + \rho_{i}} + \sigma(x^{\rho_{n} + \rho_{i}})$	<sup>6</sup> 9) (3)	
	$b_0 > 0$ . Further, suppose that for certain co	onstants N > -1,	
A > 0 in    the fo	pllowing estimates hold: $\varphi(x,y) > Ax^{N},  \psi(x,y) > 0$ $\varphi(x,y) = o(x^{N})  (x \to \infty),  \psi(x,y) > Ax^{2N}.$	(4) (5)	
Finally, suppose,	for certain constants $B \ge 0$ , $s > 0$ , $\alpha \le N + 1$ i		
inequality	$ \varphi(x,y)-\varphi(x,0) + \psi(x,y)-\psi(x,0)  < By^* \exp x^a$	(6)	
	$\frac{y'(x)}{y(x)} = \sum_{l=0}^{n} \alpha_l x^{\rho_l} + o(x^{\rho_n}),$	(7)	
(where the coeffic	ients q are determined from recursion relation	s which are made	
references to our	oof). An example is given. "Y. Y. Nemytskiy brattention; he also made other valuable comments,	ought certain for which we are	
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leased to express ou	r gratitude."	Orig. art	. has: 28	formulas.			
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NEFEDOV, A.A., kandidat tekhnicheskikh nauk; SHCHERBINA, G.Z., inzhener.

Increasing the productivity of thin sheet mills. Metallurg 2 no.6: 23-25 Je '57. (MIRA 10:6)

1. Ural'skiy institut chernykh metallov (for Nefedov). 2. TSentral' naya zavodskaya laboratoriya Knakiyevskogo metallurgicheskogo zavoda (for Shcherbina).

(Rolling (Metalwork))

130-9-10/21

AUTHORS: Babiy, A.S. and Shcherbina, G.Z.

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Combating Surface Defect in Sheets (Bor'ba s poverkhnostnymi TITLE: defektami na listakh)

PERIODICAL: Metallurg, 1957, Nr 9, pp.21-23 (USSR)

ABSTRACT: An account is given of an investigation carried out at the, Yenakiyevo works to find the connection between defects in ingots (250-650 kg) and in sheets (4, 5, 6 and 8 mm thick, 1100-1400 mm wide) rolled from them in a three-high mill. Ingots were selected with particular types of defects and the corresponding sheets in which defects appeared were examined. Results obtained are tabulated, showing the proportions of the various types of ingot defects (scabs, pits, slag inclusions and sand holes) which appeared in the sheets in the same or in a different form. Of large scales 20% appeared in a different form, and the greater part appeared unchanged; most small scabs did not appear in the sheets. Most of the pits were 5-8 mm deep and these did not appear on sheets, though some pits were produced during rolling. Sand holes appeared in the sheets far more frequently than they were visible in ingots; the metal near sand holes of steel melting origin had a microstructure rich in non-metallic inclusions,

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AUTHORS: SOV/133-59-4-22/32 Tovpenets, Ya.S., Candidate of Technical Sciences,

Goncharenko, H.I., Candidate of Technical Sciences, Eabiy, A.S., Engineer, and Shcherbina, G.Z., Engineer

TITIE:

Improvement of Mechanical Properties of Reinforcing Pars by Thermal Treatment (Povysheniye mekhanicheskikh svoystv armaturnoy stali posredstvom termicheskoy

obrabotki)

PERIODICAL: Stal', 1959, Sr 4, pp 364-367 (USSR)

ABSTRACT: The possible degree of improvement of mechanical

properties of 3t5 steel by thermal treatment and optimum conditions of such treatment were studied. Specimens from 5 heats were taken for the investigation (chemical composition - table 1). Parallel specimens were prepared from the usual rods and from rods which passed

thermal treatment according to one of the following seven modifications. OC (in brackets - duration of

cooling in water - seconds). Card 1/4

#### CIA-RDP86-00513R001548910011-1 "APPROVED FOR RELEASE: 08/23/2000

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Improvement of Mechanical Properties of Reinforcing Bars by Thermal Treatment

I	II	III	IV	V	VI	VII
800	800	850	850	900	900	900
(3)	(9)	(5)	(9)	(3)	(9)	(12)

After hardening the rods were annealed at 500, 600, 650, 670 and 690°C. In addition a part of the rods was hardened in water after electric heating (by resistance) to 820 to 850°C and from the temperature of the end of rolling with subsequent annealing at 650°C (the duration of cooling of rods 10 to 12 and 28 mm in diameter on hardening in water was 6 and 20 seconds respectively). The duration of electric heating of rods 12 mm in diameter did not exceed 2-3 minutes at a current of 1200 to 2100 a and 12 v. Tests for strength were done at room temperature and tests for bending and impact strength also at sub zero temperatures. The macrostructure was studied on impact strength specimens in the place of the break. The experimental results are given in tables and figures. It was found that Card 2/4 mechanical properties of reinforcing profiles from low

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Improvement of Mechanical Properties of Meinforcing Pars by Thermal Treatment

carbon steel 3. 5 can be substantially improved by hardening with high temperature annealing (not only the tensile and yield strength are improved but also the impact strength particularly at low testing temperatures (up to -60°C see table 3). The influence of welding on the mechanical properties of thermally treated metal is non-uniform and depends on the method of welding (electric arc welding completely removes the improvement of mechanical properties obtained by the neat treatment while butt welding only partly removes the beneficial influence of heat treatment). The technico-economic effect of thermal treatment (table 4) with hardening from the temperature at the end of rolling is somewhat lower than on hardening from special heating to 850°C (particularly in respect of impact strength).

Card 3/4

SUV/133-59-4-22/32

Improvement of Mechanical Properties of Reinforcing Bars by Thermal Treatment

There are 5 figures, 4 tables and 6 Soviet references.

ASSOCIATION: Donetskiy Industrial'nyy Institut i Yenakiyevskiy Metallurgicheskiy Zavod (Donetsk Industrial Institute and the Yenakiyevo Metallurgical Works)

Card 4/4

SVECHNIKOV, Gennadiy Aleksandrovich; SHCHERBINA, I., red.; RYZHOVA, M., mladshiy red.; NOGINA, N., tekhn. red.

[Causality as a category in physics] Kategoriia prichinnosti v fizike.

Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1961. 244 p. (MIRA 14:11)

(Causation) (Physics-Philosophy)

SHCHERBINA, I.

Our plans and tasks. Pozh. delo 5 no.6:25-26 Js | 59.
(MIRA 12:8)

1.Starshiy inspektor Upravleniya uchebnykh zavedeniy Ministerstva vnutrennikh del SSSR.
(Fire prevention--Study and teaching)